

Name: \_\_\_\_\_

**pb1106: Factoring when  $a = \text{prime}$  (v3)**

1. Factor the expression  $3x^2 + 17x - 56$

$$(3x - 7)(x + 8)$$

2. Factor the expression  $11x^2 + 96x + 64$

$$(11x + 8)(x + 8)$$

3. Factor the expression  $3x^2 + 35x + 72$

$$(3x + 8)(x + 9)$$

4. Factor the expression  $5x^2 + 23x + 24$

$$(5x + 8)(x + 3)$$

5. Factor the expression  $2x^2 + 17x + 21$

$$(2x + 3)(x + 7)$$

6. Factor the expression  $11x^2 + 108x + 81$

$$(11x + 9)(x + 9)$$

7. Factor the expression  $7x^2 - 17x - 12$

$$(7x + 4)(x - 3)$$

8. Factor the expression  $3x^2 - 14x - 5$

$$(3x + 1)(x - 5)$$

9. Factor the expression  $7x^2 + 11x - 6$

$$(7x - 3)(x + 2)$$

10. Factor the expression  $7x^2 + 54x + 35$

$$(7x + 5)(x + 7)$$